

Area of study	Your child will ... (Knowledge)	Your child will be able to... (Skills)
<b>Rotations</b>		
Food: International Food	<ul style="list-style-type: none"> <li>• <b>Explain</b> the role of the essential nutrients and the eatwell guide in a balanced diet (The essential nutrients, Macro and micro nutrients, The Eatwell guide)</li> <li>• <b>Know</b> some of the key attributes of fine dining plating (colour, portion control, position, organoleptic)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Use</b> tools and equipment (Revise and develop knife, hob and oven, small electrical equipment)</li> <li>• <b>Use</b> intermediate skills (Kneading, Piping, Whisking, Making a complex sauce)</li> <li>• Follow <b>health and safety</b> (Risk assessments, PPE)</li> <li>• <b>Make</b> a range of dishes (Spring Rolls, Fresh Pasta, Risotto, Swiss Roll, Curry, fruit pie)</li> </ul>
Engineering Manufacture : CAD/CAM and Electronics - Amplifier	<ul style="list-style-type: none"> <li>• <b>Describe</b> how a simple circuit works</li> <li>• <b>Explain</b> the components in the circuit</li> <li>• <b>Describe the term</b> composite material</li> <li>• <b>Explain</b> how the Laser Cutter works</li> <li>• <b>Explain</b> the benefits of CNC production</li> <li>• <b>Know</b> how to plan effectively to complete a practical outcome on CNC (Production Plan)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Use</b> soldering equipment to make a circuit (Soldering iron, wire strippers, wire cutters, pliers)</li> <li>• <b>Revise and Develop</b> CAD skills (casing design, orthographic drawing)</li> <li>• <b>Assemble</b> component parts</li> <li>• <b>Make</b> an Amplifier</li> </ul>
Engineering Design: Product Design - Torch	<ul style="list-style-type: none"> <li>• <b>Name</b> the stages of the design cycle (Identify, Design, Optimise, Validate)</li> <li>• <b>Describe the terms</b> anthropometric and ergonomic</li> <li>• <b>Demonstrate</b> how to communicate a design (Drawing techniques, Labelling, Annotation)</li> <li>• <b>Know</b> how to plan and develop a prototype</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Develop</b> design ideas using 2D/3D drawing techniques (isometric/oblique/1 &amp; 2 point perspective)</li> <li>• <b>Use</b> labelling and annotation to communicate design ideas</li> <li>• <b>Use</b> CAD to produce a design proposal (Google sketchUp)</li> <li>• Follow <b>health and safety</b> (Risk assessments, PPE)</li> <li>• <b>Use</b> tools and equipment (Craft Knife, Hand file, Rasp, needle Files)</li> </ul>